

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:.	Brugger, et al.	}	
		}	
Serial No.:	To be assigned	}	
		}	
Filed:	Herewith	}	Group Art No: To be assigned
		}	Examiner: To be assigned
		}	
For:	Differential Fluid Parameter Determination	}	
		}	
Customer No.:	24994	}	

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. § 1.56, Applicant brings to the attention of the Examiner the documents listed on the attached form PTO 1449. It is believed this Information Disclosure Statement is being filed before the first Office Action on the merits.

As shown in the Preliminary Amendment being filed herewith, this application is a continuation of US Patent Application Serial No. 10/238,164 filed September 10, 2002, which is a continuation of US Patent Application Serial No. 09/563,107 filed May 2, 2000, which is a continuation of U.S. Patent Application Serial No. 09/220,139 filed December 23, 1998, now 6,075,367; which is a continuation of U.S. Patent Application Serial No. 08/876,445 filed June 16, 1997, now US. Patent No.5,900,726; which was a continuation of U.S. Patent Application Serial No. 08/486,982 filed June 7, 1995, now U.S. Patent No. 5,644,240; which was a continuation-in-part of U.S. Patent Application Serial No. 08/332,647 filed November 1, 1994, now U.S. Patent No. 5,510,716; which was a continuation of U.S. Patent Application Serial No. 07/954,584 filed September 30, 1992,

now abandoned. Per 37 C.F. R. §1.98(d), the Examiner is respectfully referred to the files of those applications for copies of the documents listed on the attached form PTO 1449.

This submission does not represent that a search has been made or that no better information exists and does not constitute an admission that each or all of the listed documents alone or in combination, are considered to be material to patentability as defined under 37 C.F.R. § 1.56(b).

It is believed no fee is required in connection with the filing of this statement. If this is incorrect, please charge deposit account 03-2316.

Respectfully submitted,

1/29/03
Date

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INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				ATTY DOCKET NO. RC-0011-P22		SERIAL NO To be assigned	
				FILING Herewith		GROUP To be assigned	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		2,709,785	5/31/55	Fielden			
		3,396,331	8/6/68	Sperry III			
		3,404,336	10/1/68	Rosenthal			
		3,482,575	12/9/69	Claff, et al.			
		3,491,592	1/27/70	Evers, et al.			
		3,619,423	11/9/71	Galletti, et al.			
		3,722,276	3/27/73	Chandler, et al.			
		3,867,688	2/18/75	Koski			
		3,980,946	9/14/76	Fleury			
		4,081,372	3/28/78	Atkin, et al.			
		4,136,563	1/30/79	Mueller et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
		190873/85	1985	Japan			
		36990/77	1977	Japan			
		2026508	5/1/92	Spain			
		EP 0 272 414	6/29/88	Europe			✓
		EP 0 097 366	1/4/84	Europe			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
		:					
		Robert L. Hester, Ph.D., "A New Technique for Determining Recirculation in the ESRD Patient", Nephrology News & Issues, pp. 44-55, June 1993, Jackson, MS					
		Gambro, "FAM 10 Fistula Flow Studies and Their Interpretation", pp. 1-31, Lund Sweden, published on or before September 29, 1991.					
		Salamon et al. "Translation: low frequency electrodeless conductometer for measuring the electrical conductivity of solutions, 1959, Industrial Group Headquarters, Risley, Warrington, Lancashire, GB					
EXAMINER				DATE CONSIDERED			
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INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>	ATTY DOCKET NO. RC-0011-P12	SERIAL NO. To be assigned
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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,138,639	2/6/79	Hutchins			
	4,181,610	1/1/80	Shintani, et al.			
	4,361,049	11/30/82	Volgyesi			
	4,508,622	4/2/85	Polaschegg, et al.			
	4,650,458	3/17/87	Dahlberg, et al.			
	4,739,492	4/19/88	Cochran			
	4,740,755	4/26/88	Ogawa			
	4,825,168	4/25/89	Ogawa, et al.			
	4,995,268	2/26/91	Ash, et al.			
	5,004,459	4/2/91	Peabody, et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	2093192	8/25/82	United Kingdom				
	521891	10/6/76	U.S.S.R. (cover page)				✓
	1013853	4/23/83	U.S.S.R.				✓

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

		Richard A. Sherman, "Recirculation Revisited", Seminars in Dialysis, Vol. 4, No. 4, pp. 221-223, Oct-Dec 1991, New Jersey

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INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				Docket Number (Optional) RC-0011-P22		Application Number To be assigned			
				Applicant(s)					
				Filing Date Herewith		Group Art Unit To be assigned			
U.S. PATENT DOCUMENTS									
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPR PRIATE		
		5,092,836	3/3/92	Polaschegg					
		5,453,576	9/26/95	Krivitski					
		5,510,716	4/23/96	Buffaloe, IV, et al.					
		5,510,717	4/23/96	Buffaloe, IV, et al.					
		5,595,182	6/21/97	Krivitski					
		5,685,989	11/11/97	Krivitski, et al.					
		3,450,984	6/17/69	Holmes					
		5,312,550	5/17/94	Hester					
		3,324,720	6/13/67	Sutherland					
FOREIGN PATENT DOCUMENTS									
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation		
							YES	NO	
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>									
		McKamy SMith, "Cardiac Output Determined by the Saline Conductivity Method Using an Extraarterial Conductivity Cell", Cardiovascular Research Center Bulletin, Vol. 5, No. 4, pp. 123-134, April-June 1967, Texas							
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						YES	NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

			Mogens Thomsen et al., "Evaluation of Clinical Examination Preceding Surgical Treatment of AV-Fistula Problems," Acta Chir Scand, Vol. 151, pp. 133-137, 1985, Sweden
			Transonic Systems, Inc., Access Flow & Recirculation Measured During Hemodialysis, October 1994, N. Y.

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							YES	NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

			C. Aldridge et al., "The Assessment of Arteriovenous Fistulae Created for Haemodialysis from Pressure
			and Thermal Dilution Measurements, Journal of Medical Engineering & Technology," Vol. 8, No. 3,
			pp. 118-124, May/June 1984, U.K.

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OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>			
			J.S. Gani et al., "Use of the Fistula Assessment Monitor to Detect Stenoses in Access Fistulae," (abstract) Australian Society of nephrology, 1989, Australia
			Jonathan S. Gani, "Use of the Fistula Assessment Monitor to Detect Stenoses in Access Fistulae," American Journal of Kidney Diseases, Vol. XVII, No. 3, pp. 303-306, March 1991, Newcastle, Australia
			R N Greenwood et al. "Assessment of Arteriovenous Fistulae from Pressure and Recirculation Studies. Clinical Experience in 186 Fistulae", Abstract, pg. 106, 1985, London, U.K.
			R N Greenwood et al., "Assessment of Arteriovenous Fistulas From Pressure and Recirculation Studies: Clinical Experience in 215 Upper Limb Fistulas, EDTA-ERA," Vol. 22, pp. 296-302, 1985, London, U.K.

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OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

		R N Greenwood et al., "Assessment of Arteriovenous Fistulae from Pressure and Thermal Dilution Studies: Clinical Experience in Forearm Fistulae," Clinical Nephrology, Vol. 23, No. 4, pp. 189-197, 1985, U.K.
		L. Goldstein et al., "The Assessment of Arteriovenous Fistulae From Pressure and Recirculation Studies:, Porc EDTNA-ERCA, Vol. 14, pp. 207-215, 1985, United Kingdom
		Lynn W. Hart et al., "A Noninvasive Electromagnetic Conductivity Sensor for Biomedical Applications:, IEEE Transactions on Biomedical Engineering, Vol. 35, No. 12, pp. 1011-1022, December 1988, Maryland
		Robert L. Hester et al., "The Determination of Hemodialysis Blood Recirculation Using Blood urea nitrogen Measurements", American Journal of Kidney Diseases, Vol. XX, no. 6, pp. 598-602, December 1992, Mississippi

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						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		N.M. Krivitski, "Novel Method to Measure Access Flow During Hemodialysis by Ultrasound Dilution (UD)", ASAIO Journal 1995
		Nikolai M. Krivitski, "Theory and Validation of Access Flow Measurement by Dilution Technique during Hemodialysis", Kidney International, Vol. 48 (1995), pages 244-250
		N.M. Krivitski, "Accuracy of Ultrasound Dilution Method to Measure Access Flow (AF) in Hemodialysis", XIIIth International Congress of Nephrology, Abstract, 1995

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						YES	NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

		Nikolai Krivitski, Ph.D. "New Method to Measure Recirculation (Rc) and Access Flow During Hemodialysis (HD)" American Nephrology Nurses' Association 26th National Symposium Exhibitor Continuing Education Program, Abstract, 1995
		T. Depner, "Changes in Access Blood Flow (Qac) and Appearance of Recirculation (RC) During Hemodialysis", XIIIth International Congress of Nephrology, Abstract, 1995
		T.A. Depner et al., "Hemodialysis Access Recirculation (Rc) Measured by Ultrasound Dilution", ASAIO Journal 1995 Abstracts, Supplement to January-March 1995 Volume 41, No. 1, page 80

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Docket Number (Optional)

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	3						

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	John L. Noshier, Death Taxes, and Vascular Access Dysfunction, Seminars in Dialysis, Vol. 4, No. 2, pp. 67-68, Apr-June 1991, New Jersey
	In-Lin Diagnostics (brochure) "Improve the Clinical Outcome of Every Patient!", four pages, (undated)
	In-Line Diagnostics (brochure) "Non-Invasive Blood Volume Monitoring", two pages, 1994
	In-Line Diagnostics (brochure) "The Crit-Line System", two pages, (undated)

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RC-0011-P12

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Applicant(s)

Filing Date

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	3						

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		John D. Bower and Thomas G. Coleman, "Circulatory Function During Chronic Hemodialysis", Vol. XV Trans. Amer. Soc. Artif. Int. Organs, 1969, pp. 373-377

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INFORMATION DISCLOSURE CITATION
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Docket Number (Optional)

RC-0011-P22

Application Number

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Applicant(s)

BRUGGER, James

Filing Date

Herewith

Group Art Unit

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U.S. PATENT DOCUMENTS

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							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		J.H. Meijer et al., "Analysis of Recirculation in Single-needle Haemodialysis", Med. & Biol. Eng. & Comput., 1979, 17, 578-582

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